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| APPLICATION N | NO. F        | ILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.    | CONFIRMATION NO. |
|---------------|--------------|------------|----------------------|------------------------|------------------|
| 10/613,203    |              | 07/03/2003 | Gurtej S. Sandhu     | 98-0957.01 4599        |                  |
|               | 7590         | 01/25/2005 |                      | EXAM                   | INER             |
| Charles       | Brantley     |            |                      | MALDONAI               | 00, JULIO J      |
| Micron T      | echnology, I | nc.        |                      |                        |                  |
| 8000 S F      | ederal Way   |            |                      | ART UNIT               | PAPER NUMBER     |
| Mail Stop     | 01-525       |            | 2823                 |                        |                  |
| Boise, II     | D 83716      |            |                      | DATE MAILED: 01/25/200 | 5                |

Please find below and/or attached an Office communication concerning this application or proceeding.

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|---|---|--|---|-----------|--|--|--|
|   |   | Application No.  | Applicant(s)  |           |  |  |  |
|   |   | 10/613,203   | SANDHU ET AL.   |           |  |  |  |
|   | Office Action Summary   | Examiner   | Art Unit  |           |  |  |  |
|   |   | Julio J. Maldonado   | 2823  |           |  |  |  |
| Period fe   | The MAILING DATE of this communication app<br>or Reply  | ears on the cover she t with the o   | correspondence address  | S         |  |  |  |
| THE - Exte after - If the - If NC - Failt Any   | MAILING DATE OF THIS COMMUNICATION.  Insions of time may be available under the provisions of 37 CFR 1.13  SIX (6) MONTHS from the mailing date of this communication.  The period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period was the period for reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE | mely filed  ys will be considered timely.  the mailing date of this commun  ED (35 U.S.C. § 133). | nication. |  |  |  |
| Status  |   |  |   |           |  |  |  |
|   | Responsive to communication(s) filed on <u>08 No.</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allower closed in accordance with the practice under Expression 1.  | action is non-final.<br>nce except for formal matters, pro   |   | rits is   |  |  |  |
| Disposit  | ion of Claims   |  |   |           |  |  |  |
| 5)<br>6)<br>7)  | , <u> </u>  |  |   |           |  |  |  |
| Applicat  | ion Papers  |  |   |           |  |  |  |
| 10)   | The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Ex   | epted or b) objected to by the l<br>drawing(s) be held in abeyance. See<br>on is required if the drawing(s) is ob  | e 37 CFR 1.85(a).<br>jected to. See 37 CFR 1.1  |           |  |  |  |
| Priority u  | ınder 35 U.S.C. § 119   |  |   |           |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul> |   |  |   |           |  |  |  |
| Attachmen   | • •   |  |   |           |  |  |  |
| 2) 🔲 Notic<br>3) 🔲 Inforr   | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date  | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:   |   |           |  |  |  |

## **DETAILED ACTION**

## Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention: the first specie directed to a semiconductor device including to dielectric layers with different oxygen concentration, wherein the dielectric layers do not need to include metals; and the second specie directed to a semiconductor device including a top Ta<sub>2</sub>O<sub>5</sub>; a bottom Ta<sub>2</sub>O<sub>5</sub> layer under said top Ta<sub>2</sub>O<sub>5</sub> layer; and a silicon nitride layer under said bottom Ta<sub>2</sub>O<sub>5</sub> layer.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, none of the claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species, which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Art Unit: 2823

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

## Conclusion

- 2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Julio J. Maldonado whose telephone number is (571) 272-1864. The examiner can normally be reached on Monday through Friday.
- 3. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri, can be reached on (571) 272-1855. The fax number for this group is 703-872-9306 for before final submissions, 703-872-9306 for after final submissions and the customer service number for group 2800 is (703) 306-3329. Updates can be found at http://www.uspto.gov/web/info/2800.htm.

Julio J. Maldonado Patent Examiner Art Unit 2823

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Julio J. Maldonado January 21, 2005

George Fourson
Primary Examiner